

1 WHAT IS CLAIMED IS:

2 1. A drive assist system for an own vehicle at least having
3 solid object detecting unit for detecting frontal solid objects
4 including a preceding vehicle traveling ahead of said own vehicle
5 and a second preceding vehicle traveling ahead of said preceding
6 vehicle and traveling control unit including constant speed
7 traveling control unit for controlling a vehicle speed of said
8 own vehicle so as to travel at a constant speed and follow-up
9 traveling control unit for establishing said preceding vehicle
10 as a follow-up object and for controlling a traveling of said
11 own vehicle so as to follow up said preceding vehicle, comprising:

12 means for inhibiting an acceleration of said own vehicle
13 following up said preceding vehicle according to said follow-up
14 traveling control unit when a first state where said preceding
15 vehicle undertakes to pass said second preceding vehicle is
16 detected;

17 means for continuing to establish said preceding vehicle
18 as said follow-up object until a second state where said preceding
19 vehicle travels in parallel with said second preceding vehicle
20 is detected;

21 means for changing said follow-up object from said
22 preceding vehicle to said second preceding vehicle when said second
23 state changes to a third state where the speed of said preceding
24 vehicle is larger than that of said second preceding vehicle;
25 and

1 means for continuing to establish said preceding vehicle
2 as said follow-up object when said second state changes to a fourth
3 state where the speed of said preceding vehicle is smaller than
4 that of said second preceding vehicle.

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6 2. The drive assist system according to claim 1, wherein
7 said solid object detecting unit includes means for calculating
8 at least either of widths of said preceding vehicle and said second
9 preceding vehicle and means for discriminately recognizing
10 said preceding vehicle and said second preceding vehicle based
11 on the direction of the preceding vehicle passing the second
12 preceding vehicle and said widths.

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14 3. The drive assist system according to claim 1, wherein
15 said traveling control means includes means for raising an alarm
16 when it is judged that said second preceding vehicle is a
17 stationary object.

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19 4. The drive assist system according to claim 1, wherein
20 said first state is detected by such judgment that an intervehicle
21 distance between said preceding vehicle and said second preceding
22 vehicle decreases.

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24 5. The drive assist system according to claim 1, wherein
25 said first state is detected by such judgment that said

1 preceding vehicle moves widthwise and said second preceding
2 vehicle is detected.

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4 5. The drive assist system according to claim 1, wherein said second
5 state is detected by such judgment that a distance to said
6 preceding vehicle and a distance to said second preceding vehicle
7 is approximately equal.

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9 6. The drive assist system according to claim 1, wherein said
10 preceding vehicle is a two-wheel vehicle.

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